

N^o 4743



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COMPLETE SPECIFICATION.

Improvements in Ecraseurs.

I, MAX JAENICKE, of 32A, Jakobstrasse, Görlitz, Germany, Doctor Medicinæ, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

5 The present invention has reference to certain new and useful improvements in écraseurs and relates more especially to such as are employed in nasal operations, for the removal of polypi and like malignant growths.

Hitherto écraseurs have been so constructed, that the chain saw or wire loop for embracing and removing the polypus has to be formed by hand.

10 This has proved to be a matter of much inconvenience, more particular on account of the time lost on each occasion in adjusting the loop, which moreover, by reason of its being handled must also be disinfected every time and soon wears out.

In order to overcome these drawbacks, I employ a special form of guide or 15 mouthpiece for the loop, and a spring device whereby the loop is formed automatically.

In order to make my invention more readily understood, I have illustrated it on the accompanying sheet of drawings, Fig. 1 of which represents a longitudinal section of an écraseur according to my invention, Fig. 2 is a detail view to 20 a larger scale, showing the mouthpiece with the wire loop. *a* is the stem of the instrument, which may be of any suitable cross section and form and which is provided with a cross bar or ring *a*¹. *b* is a slide working on the stem *a* and provided with finger rings *b*¹, *b*¹ or the like. *c* is a spiral spring, secured between the slide *b* and the bottom of the stem *a*. *d* is the guide tube for the wire *e* and 25 is attached to the stem *a*.

This tube is provided with a splayed mouth-piece, which I prefer to form in two branching tubes *d*¹, *d*² connected by a bridge *d*³, as is clearly shown in Fig. 2.

In operation the wire *e* of suitable length, having been inserted into the tubular guide *d*, *d*¹, *d*², its ends are secured to the slide *b* by means of set screws or in 30 any other suitable manner. Owing to the influence of the spring *c* the slide will be kept pushed forward and the looped end of the wire will consequently be held protruding from the mouthpiece and will be given the correct shape by reason of the splayed form of the mouthpiece.

The instrument is inserted into the nasal or other organ in the usual manner, 35 and the loop having been adjusted over the malignant growth to be removed, the slide *b* is pulled back whereby the growth is strangled between the loop and the bridge *d*³. The arched form of the latter ensures a certain and clean operation.

Although I have shown only one form of mouthpiece or guide *d*¹, *d*², *d*³, it is obvious that I may adopt any other suitable form, whereby a broader or narrower 40 loop may be obtained, as desired. In this manner operations may be performed as well at the back as at the front of the nasal organ, and the instrument may readily be passed through narrow passages.

The guide and mouth piece may be constructed of two independent tubes, separated from one another at the top by an insulating bridge piece, whereby 45 the operations may be performed by galvano-cauterisation.

[Price 8d.]

Jaenicke's Improvements in Ecraseurs.

It will also be clear that instead of the slide being propelled forward as shown in the drawing, it may be drawn forward by a contracting helical spring located on the front side of the slide. One end of this spring is then attached to the slide and the other end for instance to a pin located near the bottom of the guide tube.

The great advantage of my new écraseur is that it may be inserted into the 5 nose or other cavity to be operated upon with the wire loop in the retracted position and that then when the instrument is exactly at the place to be operated a loop of any desired size may be formed automatically.

Having now particularly described and ascertained the nature of my invention and in what manner the same is to be performed, I declare that what I 10 claim is;—

1:—An écraseur comprising a stem, a guide for the operating wire loop and a spring actuated slide working on said stem and holding the free ends of the said operating loop in such a manner that the latter normally protrudes from the free 15 end of said guide, all substantially as described.

2:—An écraseur comprising a stem, a tubular guide having a splayed mouth piece for the operating loop and a spring actuated slide working on said stem and holding the free ends of the said operating loop, in such a manner that the latter normally protrudes from the said mouth piece, all substantially as set 20 forth.

3:—In écraseurs a mouth piece for guiding the operating loop, comprising a tubular bifurcated channel terminating in an arched bridge, substantially as described. 20

Dated this 6th day of March 1900.

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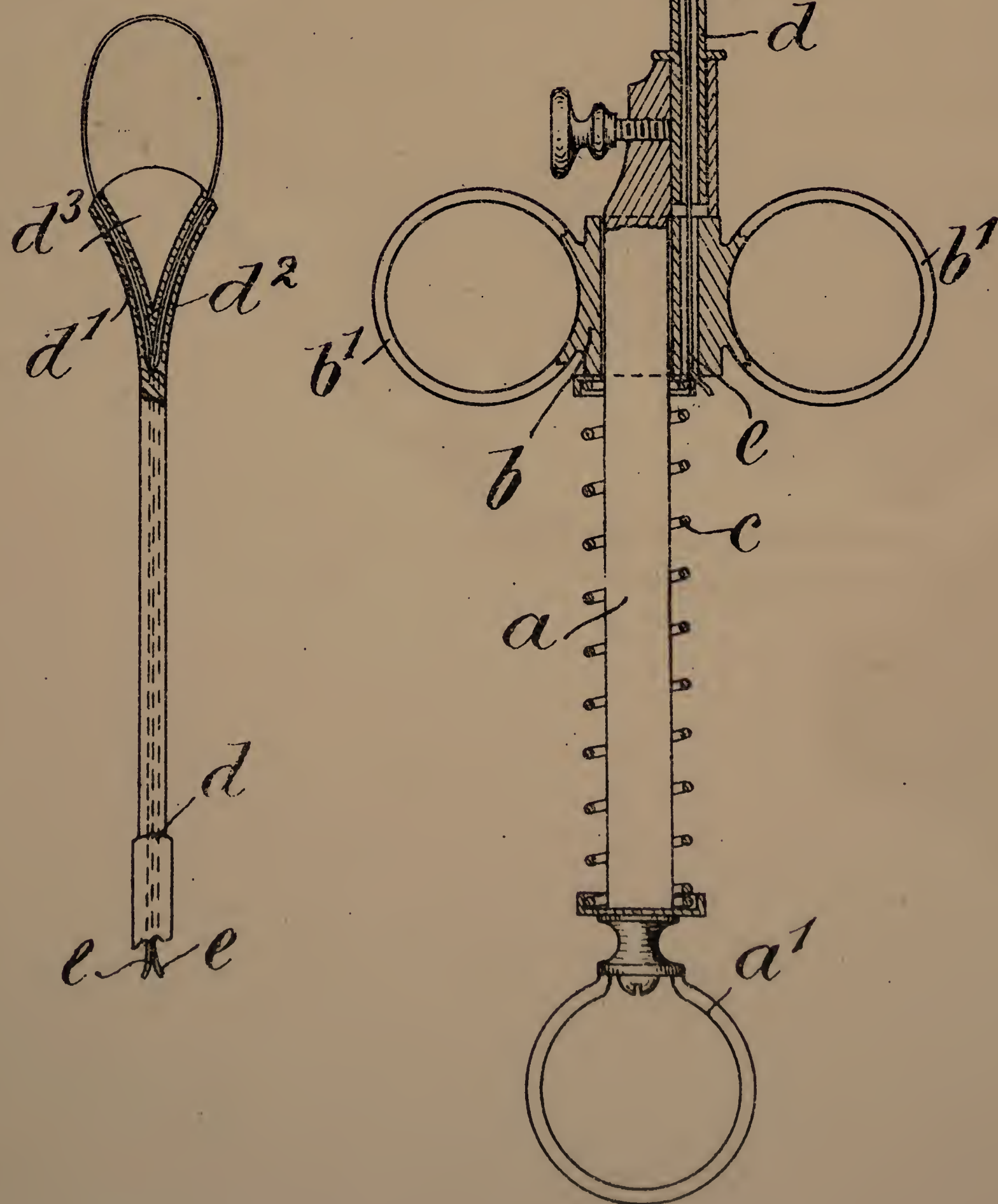
Redhill: Printed for Her Majesty's Stationery Office, by Malcomson & Co., Ltd.—1900.



Fig. 1.



Fig. 2.



[This Drawing is a reproduction of the Original on a reduced scale.]

